Luminance Contrast Report

Product: Appular Corrugated Stair Nosing
Product Code: SN-APC - Various
Address: 8a Lara Way, Campbellfield VIC 3061
Testing Date: 29/09/2022

We have determined the luminance contrast of the following sample. These test results and report should be used as a good guidance only with the test method specified in the standards AS/NZS 1428.1.2009 Appendix B3.

Product

Product Name: Appular Corrugated Stair Nosing

Product Description:
Aluminium Stair Nosing with Aluminium Corrugated Insert

Test Results

Overall view of test results per colour - Please see table of results on next page

Colour	Dry LRV Average	Wet LRV Average
Black	1.896	1.410
Brass	52.4	55.058
Clear	49.044	48.947

Table of LRV Results

Dry Measurements		Wet Measurements		Dry Measurements		Wet Measurements	
Colour	Black			**Colour**	Brass		
1.894	1.91	1.462	1.417	52.49	52.373	55.105	55.161
1.891	1.897	1.434	1.292	52.23	52.582	54.762	54.163
1.887	1.888	1.466	1.354	52.543	52.394	54.87	55.087
1.895	1.905	1.471	1.429	52.245	52.492	54.652	55.068
1.878	1.917	1.506	1.209	52.317	52.249	54.408	54.954
1.876	1.895	1.43	1.422	52.617	52.43	54.988	55.736
1.875	1.936	1.523	1.302	52.584	52.253	55.062	55.673
1.875	1.909	1.5	1.458	52.809	52.39	55.002	55.805
1.878	1.89	1.437	1.273	52.778	52.462	55.178	55.254
1.894	1.927	1.363	1.454	51.239	52.53	54.624	55.611
Mean Dry LRV	1.896	Mean Wet LRV	1.410	Mean Dry LRV	52.400	Mean Wet LRV	55.058
Colour	Clear						
49.13	48.956	48.99	49.016				
49.074	48.877	48.933	48.973				
49.074	49.05	48.463	48.898				
49.074	49.174	48.913	48.765				
49.048	48.892	48.801	49.125				
49.025	49.136	48.991	48.891				
48.91	49.051	48.9	48.882				
48.99	49.137	48.988	49.361				
48.985	49.099	48.696	49.503				
49.057	49.144	49.018	48.831				
Mean Dry LRV	49.044	Mean Wet LRV	48.947				

Term		Definition
Luminance contrast		The light reflected from one surface or component, compared to the light reflected from another surface or component.
LRV		Luminance reflective value
Bowman-Sapolinski equation		To determine the luminance contrast between the samples tested, the LRVs are entered into the Bowman-Sapolinski equation: C = 125 (Y2 − Y1)/(Y1 + Y2 + 25), where: C = luminance contrast Y1 and Y2 = LRV of each surface
TGSI		Tactile Ground Surface Indicator
Integrated TGSI		Tactile ground surface indicators that are in a defined pattern and which are of the same luminance and material as the base surface.
Discrete TGSI		Individually installed TGSIs, which provide the same luminance for the sloping sides and upper surface of the truncated cone.
Composite Discrete TGSI		Tactile ground surface indicators that are individually installed and which provide a differing luminance for the sloping sides and upper surface of the truncated cone.
Stair Nosing		A strip not less than 50 mm and not more than 75 mm deep across the full width of the path of travel.

Laboratory Testing Equipment

Sterling Supplies uses compliant testing apparatus meeting AS/NZS 1428.1.2009 Appendix B3.2 requirements:

- Model: Konica Minolta CR-400 Tristimulus Colorimeter
- Illuminating and viewing system: Diffuse illumination/0<° (d/0) viewing angle, specular component included.
- Light source: Pulsed xenon lamp
- Minimum measurement interval: 3 seconds
- Measurement / illumination area - 8mm Diameter
- Illuminant used: CIE Standard Illuminant D65

Testing Methodology

The following is a summary of the testing methodology, conducted in accordance with requirements of AS/NZS 1428.1.2009, Appendix B3.3:

- The apparatus was calibrated in accordance with the manufacturer's instructions.
- The tristimulus value 'Y' (LRV measurements) were taken of the surface in random locations in dry & wet conditions.
- 20 measurements were taken. See table of results.

- Surface area was swept with a rag to remove dust particles and soiling
- Wet Measurements were determined after 5 minutes of water ponding on the surface.